

Application No. 10/630,063

Amendments to the Specification:

Please replace the paragraph on Page 8, lines 1-12, with the following amended paragraph:

In FIG. 2 it may be seen that toner registration mark images 32 have been formed along both sides of the printer 10 photoreceptor belt 12, adjacent but outside of its imaged area 30, as will be further described. However, those "Z" marks 32 can be replaced with chevron-shaped toner registration mark Images 34A-F, such as those shown in FIG. [[4]] 5, or expanded chevrons as shown and described in U.S. Patent No. 6,300,968, issued October 9, 2001 (the '968 patent). Examples of other types of MOB are given in the '968 patent as well. The particular shape of the marks is not important to the present invention. These marks are used to ensure that images drawn on the belt at different stations are aligned with each other, and particularly to ensure that each color is drawn in the appropriate place. When printing multi-color documents it is important to keep the colors aligned.

Please replace the paragraph beginning on Page 10, line 22 and ending on Page 11, line 9, with the following amended paragraph:

After IOI registration has been setup, image to paper (IOP) registration must be setup. Paper, as used herein, refers to a variety of substrates on which images and text may be printed. In order to adjust Image to Paper registration (IOP registration setup), the operator makes measurements of an image on a sheet of paper. The system adjusts the position of the image and the paper during an IOP Registration Setup. An exemplary IOP registration setup process is described in U.S. Patent Application No. 10/046,166, filed January 16, 2002, now U.S. Patent No. 6,763,199, issued July 13, 2004; entitled "SYSTEMS AND METHODS FOR ONE-STEP SETUP FOR IMAGE ON PAPER REGISTRATION," hereby incorporated in its entirety. When the IOP registration setup has been completed,

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the image is aligned with the paper, but the image has moved away from the center of the MOB sensors. When the image position is adjusted during IOP registration setup, the entire image, including the MOB registration marks 32, is distorted to end up in the correct place on the paper. The lateral (inboard to outboard) position of the image is shifted and the lateral magnification of the image, which is the size of the image from inboard to outboard, is changed. These changes affect the position of all images that are printed on the photoreceptor, including the MOB registration marks 32.

Please replace the paragraph on Page 12, lines 18-26, with the following amended paragraph:

FIG. 45 illustrates the photoreceptor belt 12 with multiple cursors drawn thereon. The two empty cursors 34E, 34F show the cursor target locations, which are as close to directly under the MOB sensors as possible. Because the cursor resolution is finite (i.e., the ROS has limits on how precisely it can place an image) it can only be positioned under the MOB sensor to within a certain degree of error. In embodiments, this error may be on the order of 100 microns. The two partially shaded cursors 34C, 34D represent the cursor position on the belt before an IOP registration setup. The two fully shaded cursors 34A, 34B represent the position of cursors after an IOP registration setup.

Please replace the paragraph beginning on Page 12, line 27 and ending on Page 13, line 2, with the following amended paragraph:

FIG. 45 illustrates a close up of the leading edge of a test sheet of FIG. 3, but also includes illustrations of the test registration marks 115, 120 in their desired locations. Both the lateral positional error and lateral magnification error can be calculated from FIGS. 3 and 45 by comparing the actual printed pattern to the desired printed pattern.